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DIVISION OF OIL
GAS & MINING

ANNUAL OPERATIONS AND PROGRESS REPORT

From Month/Year January 1983
to Month/Year December 1983

(To be submitted for each mining operation at the end of each calendar year to the Division at this address:)

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING
4241 State Office Building
Salt Lake City, Utah 84114

OPERATOR: Martin Marietta Cement MINE NAME: Leamington Cement Co.

ADDRESS: P. O. Box 51
Nephi, Utah 84648

PERMIT NUMBER AND DATE OF PERMIT: ACT/023/004

REPRESENTATIVE: Marvin L. Berg (Quarry Superintendent)

SECTION(S): 32,33 TOWNSHIP(S): 14S RANGE(S): 3W
4 15S 3W

MINERAL(S) MINED: Limestone, Quartzite, Shale

STATE AND/OR FEDERAL MINERAL LEASE NUMBERS: None

SPECIAL USE PERMITS AND/OR RIGHTS-OF-WAY: None

Section 40-8-15 and Rule M-8 of the Utah Mined Land Reclamation Act, requires each operator to include with this report an up-dated map and plan prepared in accordance with Rule M-3, as outlined in the requirements for annual report maps in Appendix I, providing a detailed status of all mining and reclamation activities which have occurred during the past year.

The report should include:

MINING:

(a) Tabulation of acreage disturbed (by pits, roads, facilities, etc.) during the report period with illustration on a current map.

Disturbance

Acreage

Pit	91.5	} 1980-83
Roads	22.5	
Facilities	45	
Waste Dumps	8	
Other		

(b) Tabulation of acreage affected to date (by years).

Date by Year

Acreage (Total)

1975	
1976	
1977	
1978	
1979	
1980	60
1981	7
1982	50
1983	50

(c) Tabulation of all topsoil (new) stockpile volumes (see chart below) and date of stockpiling.

SOIL TABULATION CHART

Area Affected (in mining sequence)
(If more space is needed, please attach.)

Area
1 2 3 etc.

Acreage of Area

0

Depth of Topsoil Removal (inches)

0

Depth of Topsoil Replacement (inches)*

0

Estimate of Topsoil Volume Salvaged (yd³ or ac ft)

0

Volume Actually Salvaged (yd³ or ac ft)

0

Volume Required for Reclamation (yd³ or ac ft)

0

Surplus or Deficit Volume (yd³ or ac ft)

0

Storage Status (short- or long-term)

0

Soil Tabulation Chart (continued)

Area Affected (in mining sequence)	Area			
	1	2	3	etc.
Storage Location	Ø			
Area Where Soil Has Been Used (if not stored)	Ø			
Running Total (all stockpiles) (yd ³ or ac ft)	Ø			
Short-term	Ø			
Long-term	Ø			

*Of previously stripped area recently reclaimed.

(d) Tabulation of all (newly removed) out-of-pit spoil volumes, date of placement and illustration on a map.

<u>Area</u>	<u>Date</u>	<u>Acreage</u>
Ø		
Ø		
Ø		

(e) Tabulation of quantity of commodity mined.

<u>Commodity</u>	<u>Tonnage</u>
(Mined) Limestone, shale, quartzite	675,871
(Milled) Limestone, shale, quartzite	675,871

(f) Description of any new construction during the report period with illustration on a map, including, but not limited to:

- Buildings and support facilities.
None

- Roads.
None

3. Diversion ditches, collector ditches, interceptor ditches, etc.
Concrete collector and diversion ditches constructed around plant
in 1982.

4. Culverts.
Culverts constructed in 1982.

5. Sediment ponds, containment ponds.
Sediment pond constructed in 1982.

6. Monitoring sites (vegetative, air quality, surface subsidence,
surface water or ground water, etc.).

None

7. Topsoil stockpiles.

None

(g) Description of any environmental problem areas with a proposed plan
for mitigation and illustration on a map, including, but not limited to:

1. Pit stability problems.

None

2. Subsidence.

None

3. Accidental water discharge, dam failure, etc.

None

4. Slumping, sliding or erosion.

None

5. Revegetation problem areas.

None

6. Existence and location of unsuitable (toxic) overburden.

None

RECLAMATION:

(a) Tabulation of the acreage reclaimed during the report period with illustration on a map, distinguishing between:

1. Backfilled, graded and contoured areas.

Area

Acreage

None

2. Topsoiled areas.

Area

Acreage

None

3. Seeded areas.

<u>Area</u>	<u>Acreage</u>
None	

4. Reseeded areas (areas previously seeded, then seeded again).

<u>Area</u>	<u>Acreage</u>
None	

(b) Tabulation of total acreage reclaimed (seeded with permanent seed mix) to date by years with illustration on an updated map:

<u>Year</u>	<u>Acreage</u>
1975	
1976	
1977	
1978	
1979	
1980	0
1981	0
1982	5.75
1983	0
1984	

(c) Description of the reclamation procedures used during the report period, including:

1. Average depth of topsoil applied.

N/A

2. Type of seed (species) used for seeding during the report period.

N/A

3. Date of seeding during the report period.

Spring _____ N/A _____

Fall _____

4. Seeding procedures used.

(Hand broadcast or drilled or any other).

_____ N/A _____

5. Rate of seed application.

Pounds Per Acre of Pure Live Seed (PLS) (if varied, please explain)

_____ N/A _____

6. Type and rate of fertilizer applied.

_____ N/A _____

7. Type and rate of mulch applied.

_____ N/A _____

8. Rate of irrigation water applied, if any. Please describe any type of sprinkling, or water applied (water truck, etc.).

_____ N/A _____

9. Revegetation test plot information.

(Cover, density, productivity, etc.)

_____ N/A _____

10. Soil analysis results.

N/A

(d) Description of results of previous revegetation efforts, including:
(This should be done as applicable.)

1. Types (species) of seed that have germinated and are growing.

1) Intermediate wheat grass, 2) Crested wheat grass
3) Russian wheat grass, 4) Alfalfa

2. Types (species) of seed that are not growing successfully.

None

3. Areas experiencing problems with weeds and weed types.

None

4. Significant erosional problems.

Very slight erosion after heavy rainfall.

5. Areas of unsuitable overburden on the surface as related to revegetation failure.

None

6. Procedures used or proposed to correct these problems.

Blade in erosion areas and reseed.

7. Acreage and dates of release (upon inspection by the State) of revegetated areas.

<u>Area</u>	<u>Date</u>	<u>Acreage</u>
N/A		

8. Results of soil analysis.

N/A

(e) Summarization of the reclamation costs incurred during the report period, including itemized costs for each operation (i.e., grading, topsoil replacement, seeding, etc.) and for each type of disturbance (i.e., spoil, haul roads, facilities removal, etc.) on a per acre basis.

	<u>Acres</u>	<u>Cost/Acre</u>
1. Grading N/A		
2. Backfilling		
3. Contouring		
4. Topsoil Replacement		
5. Seeding		
A. Seedbed Preparation		
B. Mulch		
C. Fertilizer		
D. Seed		
6. Other		

BOND INFORMATION:

- A. An updated bond estimate should be included, if required in the Division's approval of the Mining and Reclamation Plan (MRP) or if changes to the MRP have occurred, including a detailed itemization of actual/estimated reclamation costs as outlined in the RECLAMATION section above. The date of the release of revegetated areas from further responsibility for a partial bond release, if applicable, should also be included.

	<u>Amount</u>	<u>Type</u>	<u>Date Posted</u>
Present Bond	386,000	Surety	February 14, 1980
			Gen. Ins. Co. of Amer. 2975812

Increased disturbance, if any: _____

Increased Bond Amount (attached reclamation estimate).

B. Bond release. N/A

<u>Acres</u>	<u>Bond Amount Released</u>	<u>Date</u>
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

ADDITIONAL INFORMATION:

Supply any additional information as requested by the Division related to:

- (a) Permit stipulations (status).
- (b) Other special conditions (status).

APPENDIX I

ANNUAL REPORT MAPS

1. Maps must be clear and legible contour maps or recent aerial photos. The scale should be 1 inch = 500 feet to adequately show topographic features.
2. Map sheets should be of a reasonable size, not to exceed 48 inches on a side.
3. Maps must have a title block with:
 - A. Map title.
 - B. Name and address of permittee.
 - C. Permit and amendment numbers.
 - D. Annual report period.
 - E. Scale, north arrow, contour interval, date of photography, etc.
4. All maps must show:
 - A. Legal subdivisions.
 - B. Permit area boundary clearly shown and labelled.
 - C. Amendment areas clearly shown and labelled.
 - D. Contour features.
5. The following features should all be clearly identified:
 - A. Topsoil stockpiles (numbered and with volumes).
 - B. Settling ponds and sediment control structures.
 - C. Haul roads.
 - D. Pits identified by location, name, number, etc.
 - E. Ramps (numbered).
 - F. Out-of-pit spoil dumps.
 - G. All waste disposal sites including, but not limited to:
 1. Landfill sites.
 2. Carbonaceous waste dumps.
 - H. Diversion ditches.
 - I. Monitoring sites.
6. All areas to be affected by mining and reclamation in the coming year should be outlined and labelled.